

**UNITED STATES DEPARTMENT OF COMMERCE****Patent and Trademark Office**

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.
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09/240,524 01/29/99 GERNDT

R KCC-14-026

QM02/0329

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EXAMINER

ATKINSON, C

ART UNIT	PAPER NUMBER
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3743

DATE MAILED:

03/29/00

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Please find below and/or attached an Office communication concerning this application or proceeding.

Commissioner of Patents and Trademarks

Office Action Summary

Application No.
09/240,524

Applicant(s)

Gerndt et al.

Examiner

Atkinson

Group Art Unit

3743

--The MAILING DATE of this communication appears on the cover sheet beneath the correspondence address--

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, such period shall, by default, expire SIX (6) MONTHS from the mailing date of this communication .
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).

Status

Responsive to communication(s) filed on 1/10/2000.

This action is FINAL.

Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 1 1; 453 O.G. 213.

Disposition of Claims

Claim(s) 1-25 is/are pending in the application.

Of the above claim(s) _____ is/are withdrawn from consideration.

Claim(s) _____ is/are allowed.

Claim(s) 1-25 is/are rejected.

Claim(s) _____ is/are objected to.

Claim(s) _____ are subject to restriction or election requirement.

Application Papers

See the attached Notice of Draftsperson's Patent Drawing Review, PTO-948.

The proposed drawing correction, filed on _____ is approved disapproved.

The drawing(s) filed on _____ is/are objected to by the Examiner.

The specification is objected to by the Examiner.

The oath or declaration is objected to by the Examiner.

Priority under 35 U.S.C. § 119 (a)-(d)

Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d).

All Some* None of the CERTIFIED copies of the priority documents have been

received.

received in Application No. (Series Code/Serial Number) _____.

received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

*Certified copies not received: _____.

Attachment(s)

Information Disclosure Statement(s), PTO-1449, Paper No(s). _____

Interview Summary, PTO-413

Notice of Reference(s) Cited, PTO-892

Notice of Informal Patent Application, PTO-152

Notice of Draftsperson's Patent Drawing Review, PTO-948

Other _____

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Response to Amendment

Applicant's arguments with respect to the claims have been considered but are moot in view of the new ground(s) of rejection.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. § 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless --

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1, 8 and 20 are rejected under 35 U.S.C. § 102(b) as being anticipated by Wiemer.

The document of Wiemer in Figures 1-3 discloses the claimed invention.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. § 103 which forms the basis for all obviousness rejections set forth in this Office action:

A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Subject matter developed by another person, which qualifies as prior art only under subsection (f) or (g) of section 102 of this title, shall not preclude patentability under this section where the subject matter and the claimed invention were, at the time the invention was made, owned by the same person or subject to an obligation of assignment to the same person.

This application currently names joint inventors. In considering patentability of the claims

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under 35 U.S.C. § 103, the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 C.F.R. § 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of potential 35 U.S.C. § 102(f) or (g) prior art under 35 U.S.C. § 103.

Claims 2-3, 10-12, 14-18 and 21-25 are rejected under 35 U.S.C. § 103 as being unpatentable over Wiemer in view of Richards. The document of Wiemer discloses all the claimed features of the invention with the exception of a second end chamber and the claimed number of channels.

The patent of Richards discloses that it is known to have first and second end chamber for the purpose of obtaining the desired plumbing specifications. It would have been obvious at the time the invention was made to a person having ordinary skill in the art to employ in Wiemer a second end chamber for the purpose of obtaining the desired plumbing specifications as disclosed in Richards. The claimed number of channels is considered to be an obvious design choice which does not solve any stated problem or produce any new and/or unexpected result.

Claims 5-7 are rejected under 35 U.S.C. § 103 as being unpatentable over Wiemer.

The document of Wiemer discloses all the claimed features of the invention with the exception of the claimed number of channels. The claimed number of channels is considered to be an obvious design choice which does not solve any stated problem or produce any new and/or unexpected result.

Claim 4 is rejected under 35 U.S.C. § 103 as being unpatentable over Wiemer in view of

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Smith, Jr. The document of Wiemer discloses all the claimed features of the invention with the exception of baffles.

The patent of Smith, Jr. in Figures 1-6 discloses baffles defining fluid flow channels for the purpose of reducing flow resistance. It would have been obvious at the time the invention was made to a person having ordinary skill in the art to employ in Wiemer baffles defining the fluid flow channels for the purpose of reducing flow resistance as disclosed in Smith, Jr.

Claims 9 and 19 are rejected under 35 U.S.C. § 103 as being unpatentable over Wiemer in view of Richards as applied to claims 2-3, 10-12, 14-18 and 21-25 above, and further in view of Smith, Jr. The document of Wiemer as modified, discloses all the claimed features of the invention with the exception of baffles.

The patent of Smith, Jr. in Figures 1-6 discloses baffles defining fluid flow channels for the purpose of reducing flow resistance. It would have been obvious at the time the invention was made to a person having ordinary skill in the art to employ in Wiemer as modified, baffles defining the fluid flow channels for the purpose of reducing flow resistance as disclosed in Smith, Jr.

Claim 13 is rejected under 35 U.S.C. § 103 as being unpatentable over Wiemer in view of Eriksen et al. The document of Wiemer discloses all the claimed features of the invention with the exception of a spiral channel.

The patent of Eriksen et al. in Figure 5 discloses a spiral fluid flow channel for the purpose of reducing flow resistance. It would have been obvious at the time the invention was made to a person having ordinary skill in the art to employ in Wiemer a spiral fluid flow channel for the

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purpose of reducing flow resistance as disclosed in Eriksen et al.

Response to Arguments

The document of Wiemer discloses the claimed channel shape.

In Smith, Jr. the baffles are read as the outer surface of wall/baffles illustrated in Figure 10.

In response to applicant's argument related to Eriksen et al., the test for obviousness is not whether the features of a secondary reference may be bodily incorporated into the structure of the primary reference; nor is it that the claimed invention must be expressly suggested in any one or all of the references. Rather, the test is what the combined teachings of the references would have suggested to those of ordinary skill in the art. See *In re Keller*, 642 F.2d 413, 208 USPQ 871 (CCPA 1981). Therefore, it would have been obvious at the time the invention was made to a person having ordinary skill in the art to employ in Wiemer a spiral fluid flow channel for the purpose of reducing flow resistance as disclosed in Eriksen et al.

Conclusion

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

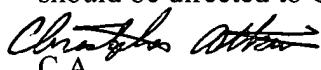
A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after

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the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Christopher Atkinson whose telephone number is (703) 308-2603.


C.A.

March 27, 2000

CHRISTOPHER ATKINSON
PRIMARY EXAMINER